

Table 1

| | left / right femur-force of driver | left / right femur-force of co-driver | belt-force of driver / co- driver | U _H |
|-------------------------|--|---|---|----------------------|
| Fiat Tipo® | 15190 N | nR N | 5620 / 6100 N | 20 / 80 ⁰ |
| Opel Corsa® | 2258 / 2700 | 1381 / 2315 | 7030 / 7310 | 25 / 90 |
| VW Polo® | 2785 | 1587 | 5142 / 5655 | 45 / 70 |
| Fiat Bravo® | 3700 | 2300 | nR / 6800 | 10 / 45 |
| VW Golf® | 2340 | 1630 | 6040 / 7050 | 50 / 50 |
| MB C® | 6858 | 2362 | 6015 / 6685 | 20 / 30 |
| MB E200® ohne Airbag | 1480 | 2140 | 8220 / 8380 | / |
| VW Passat® | 1600 | 2100 | 3400 / 4700 | 20 / 40 |
| AUDI A6® | 700 / 1200 | 1500 / 1100 | 6900 / 8400 | 25 / 50 |
| Opel Omega® | 2750 | 2180 | 6580 / 6160 | nR / 40 |
| BMW 528i® | 1400 / 1200 | 900 / 1300 | 3600 / 3400 | 10 / 30 |
| MB E320® | 2200 / 1700 | 1200 / 900 | 3000 / 3800 | 5 / 30 |
| AUDI A8® | 2360 | 2610 | 9130 / 8510 | 40 / 50 |
| BMW Z3® | 1300 / 1400 | 1300 / 900 | 8300 / 4400 | 0 / 10 |
| MB SLK® | 5100 / 1700 | 800 / 4400 | 3300 / 3700 | 0 / 40 |
| FB | nR / 8300 | 2733 / 3980 | 6144 / 5415 | 5 / 85 |
| Renault Espace® | 2037 / 11206 | 1323 / 1418 | 6829 / 7885 | 5 / 90 |
| Opel Sintra® | 4100 | 4700 | 5300 / 6400 | 60 / 30 |
| VW Sharan® | 2300 | 2600 | 6500 / 5700 | 35 / 70 |

FB = Peugeot 806®, Citroen Evasion®, Fiat Ulysse®, Lancia Zeta®

nR = no result

Table 2

| | yaw O of driver / co-driver |
|---------|--------------------------------|
| BMW Z3® | 85 / 90 ⁰ |
| MB SLK® | 100 / nR |

Table 3

| | force of head | acceleration of head | acceleration of chest | force of neck | forward motion |
|---------------------------|------------------|-------------------------|--------------------------|------------------|-------------------|
| child-seat | 696 HIC | 65 g | 59 g | 1516 N | 552 mm |
| AUDI A4® | 392 | 49 | 45 | | |
| MB E320® | 229 | 38 | 40 | | |
| child-seat to MB E320® | 304 % | 171 % | 148 % | | |

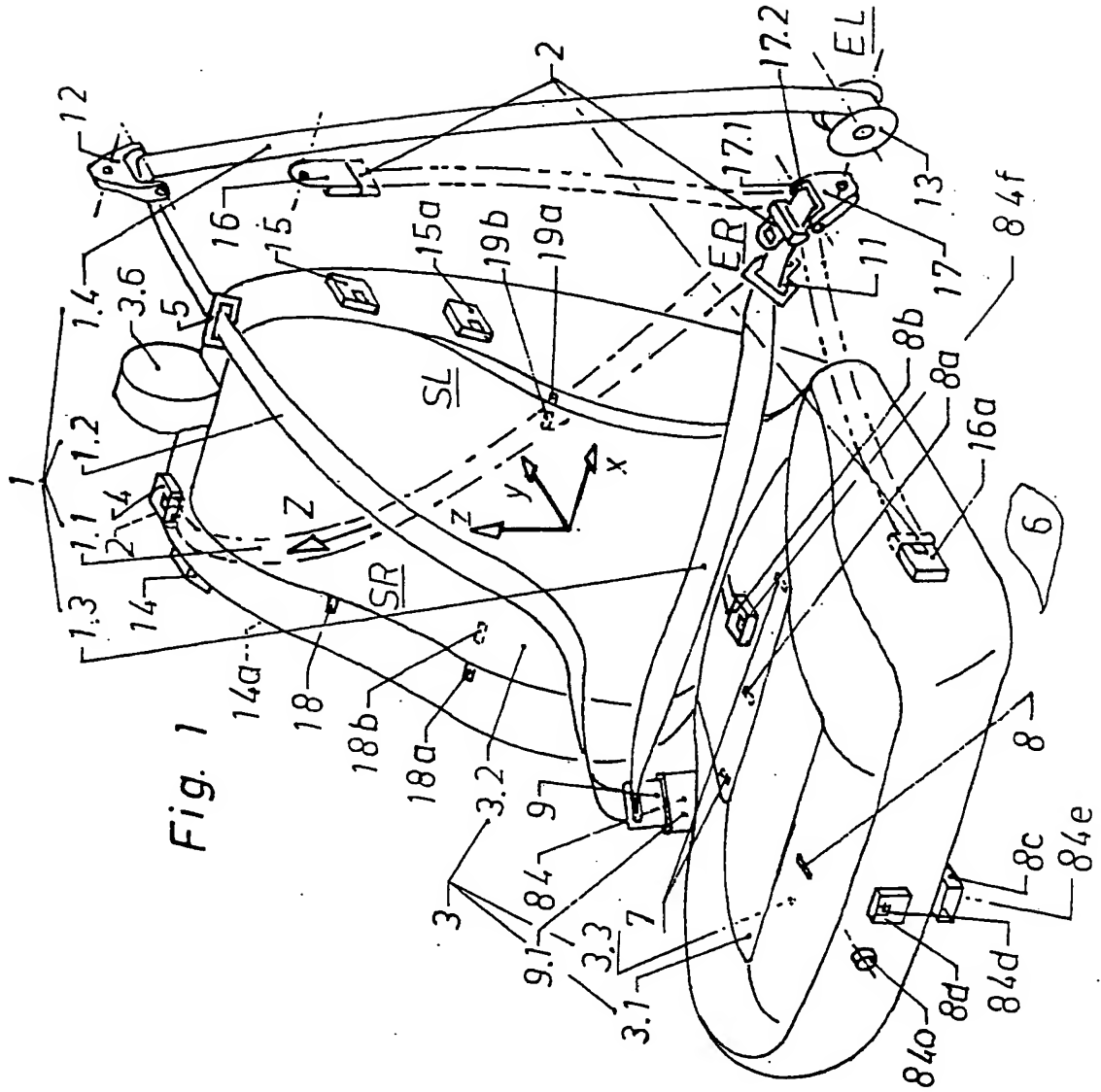
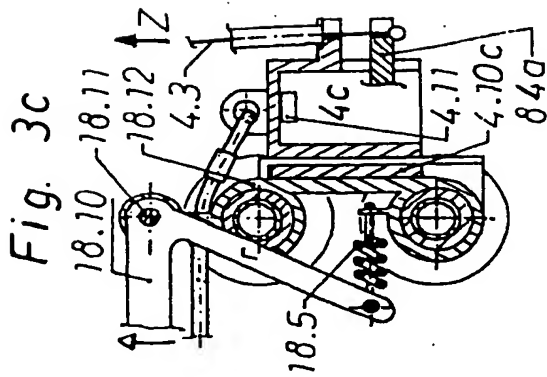


Fig. 2

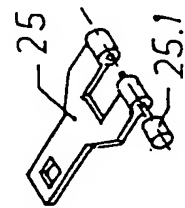


Fig. 3a

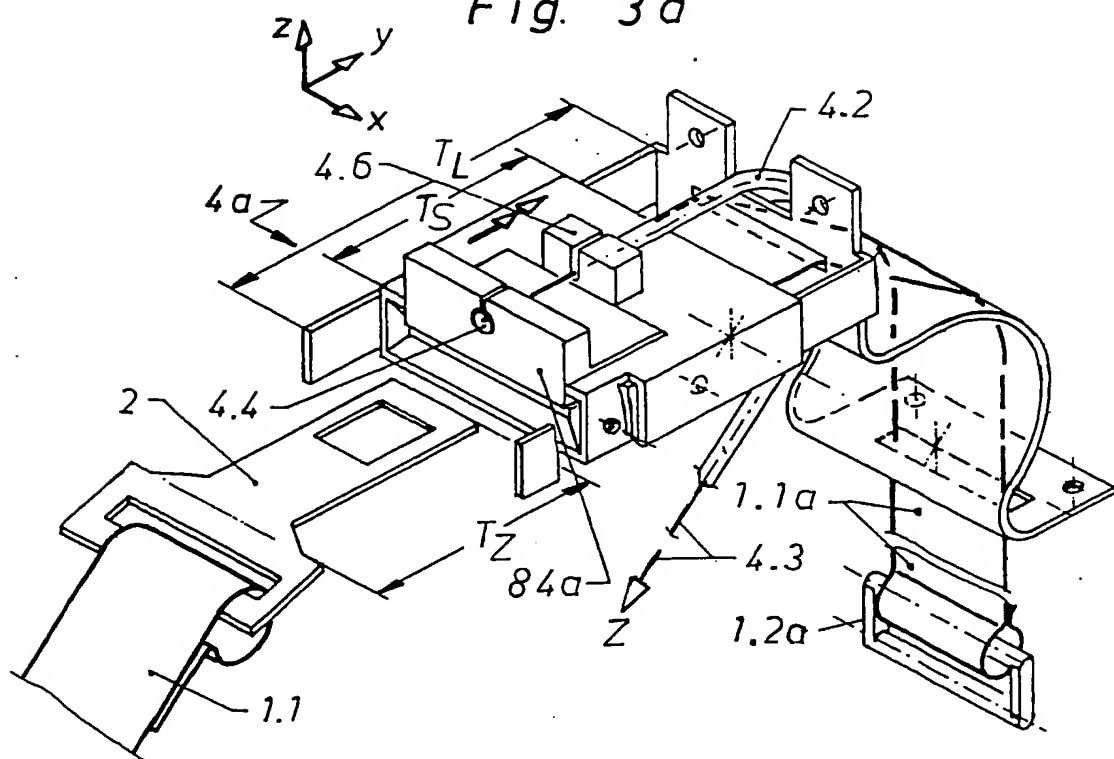


Fig. 3b

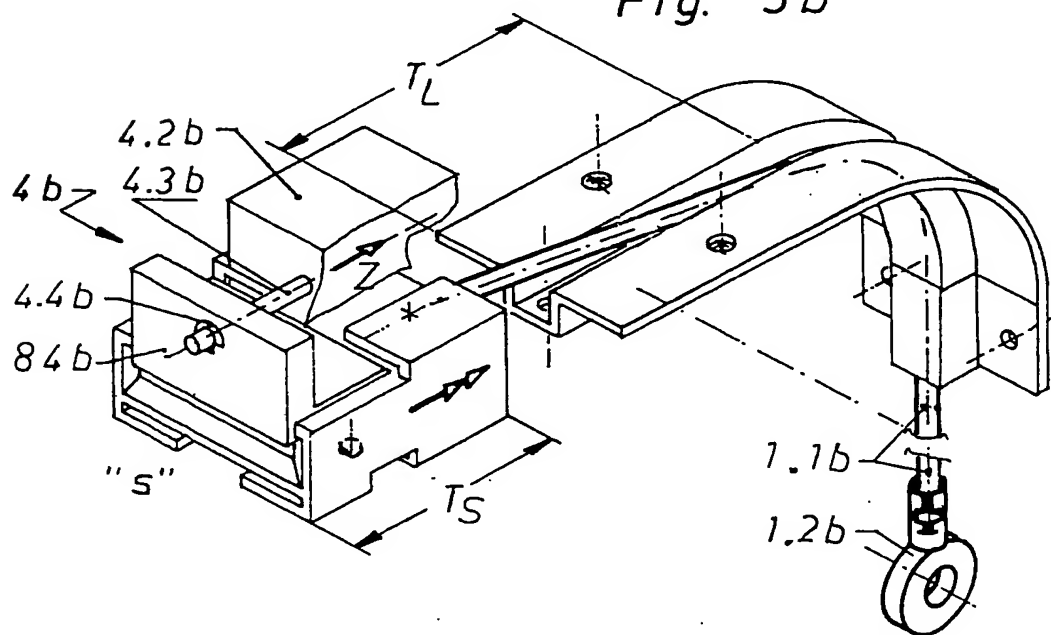


Fig. 4

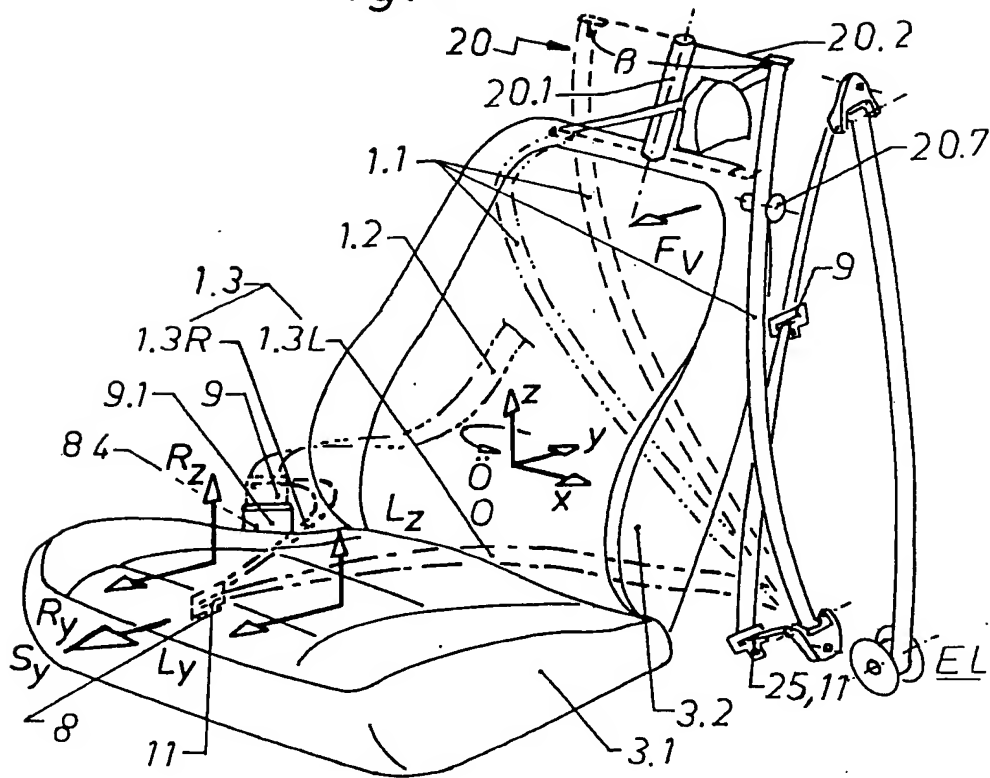


Fig. 5

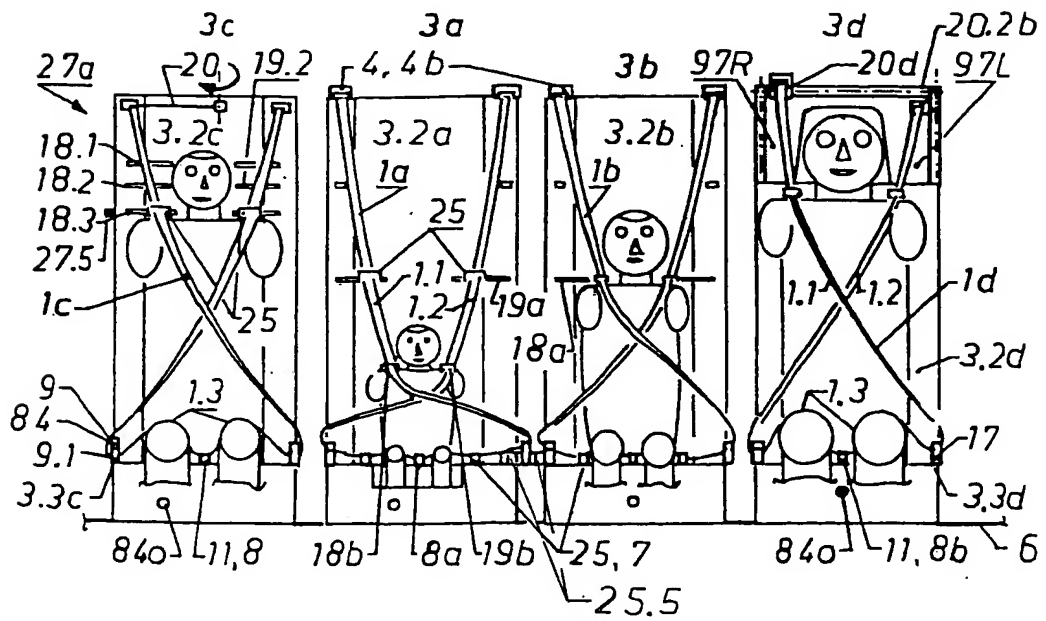


Fig. 7

Prior Art

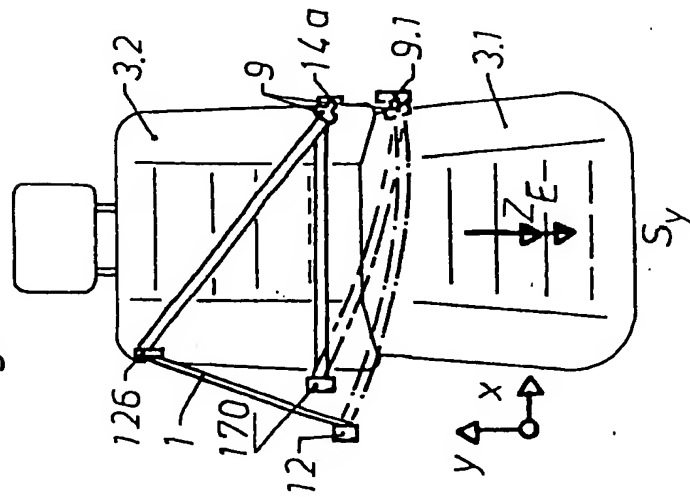


Fig. 6

Prior Art

